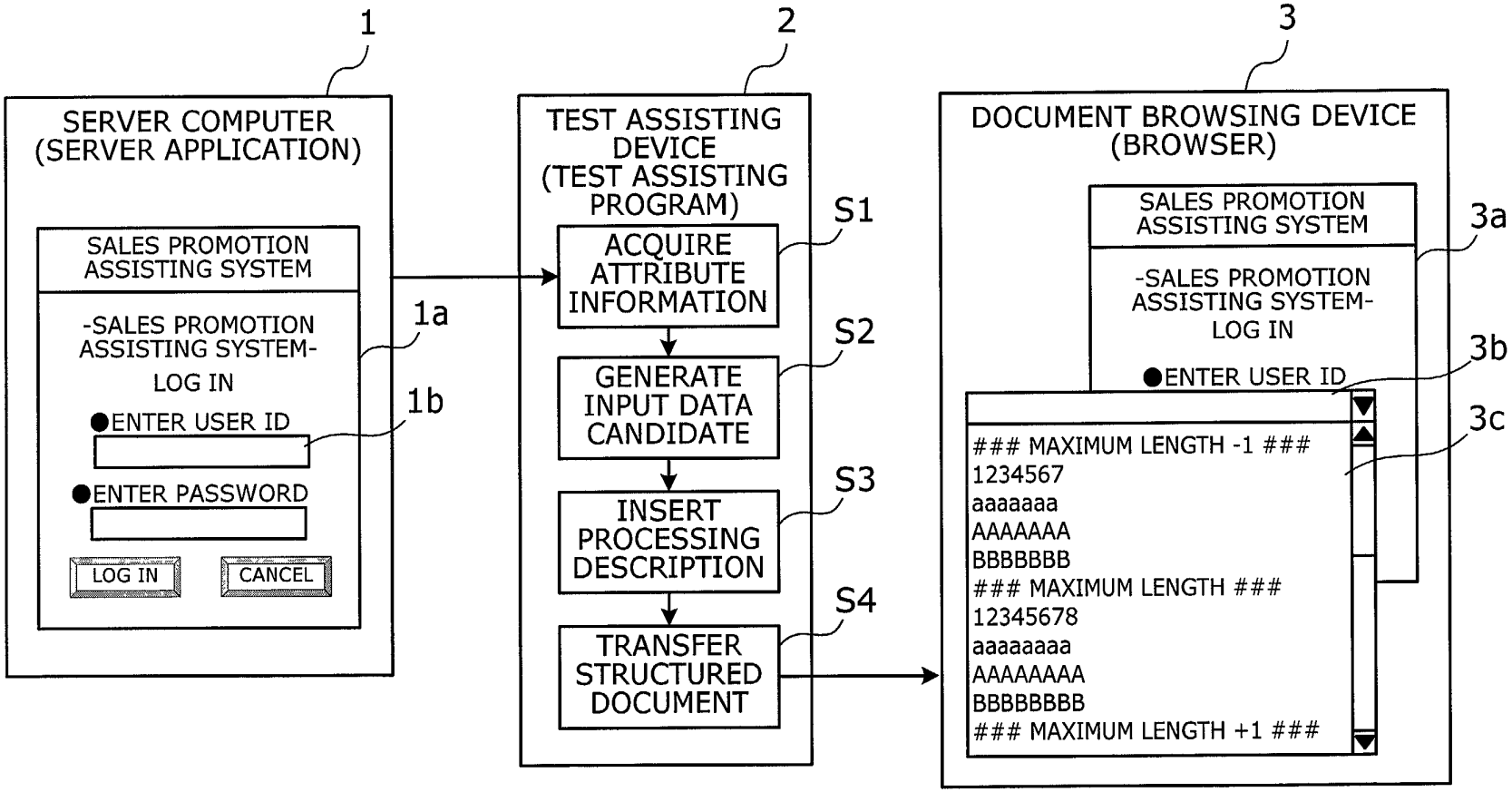

1
SERVER COMPUTER
(SERVER APPLICATION)
SALES PROMOTION ASSISTING SYSTEM
-SALES PROMOTION ASSISTING SYSTEM-
LOG IN
●ENTER USER ID
●ENTER PASSWORD
LOG IN
CANCEL
1a
1b
2
TEST ASSISTING DEVICE
(TEST ASSISTING PROGRAM)
ACQUIRE ATTRIBUTE INFORMATION
GENERATE INPUT DATA CANDIDATE
INSERT PROCESSING DESCRIPTION
TRANSFER STRUCTURED DOCUMENT
S1
S2
S3
S4
3
DOCUMENT BROWSING DEVICE
(BROWSER)
SALES PROMOTION ASSISTING SYSTEM
-SALES PROMOTION ASSISTING SYSTEM-
LOG IN
●ENTER USER ID
MAXIMUM LENGTH -1
1234567
aaaaaaa
AAAAAAA
BBBBBBB
MAXIMUM LENGTH
12345678
aaaaaaaa
AAAAAAAA
BBBBBBBB
MAXIMUM LENGTH +1
3a
3b
3c

FIG. 1

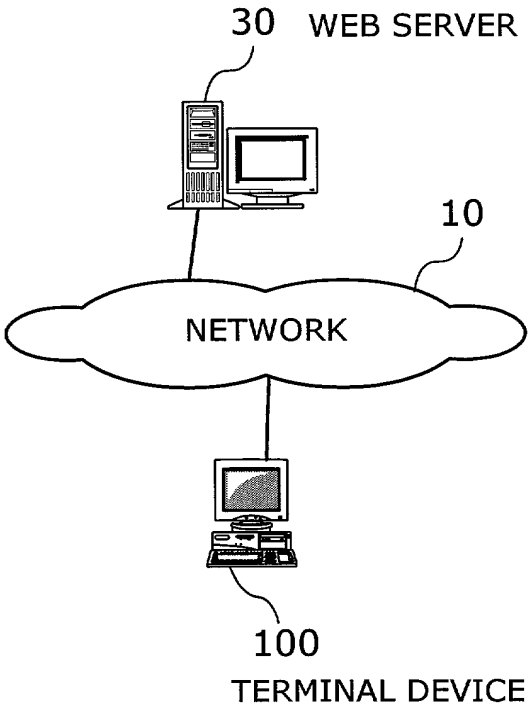


FIG. 2

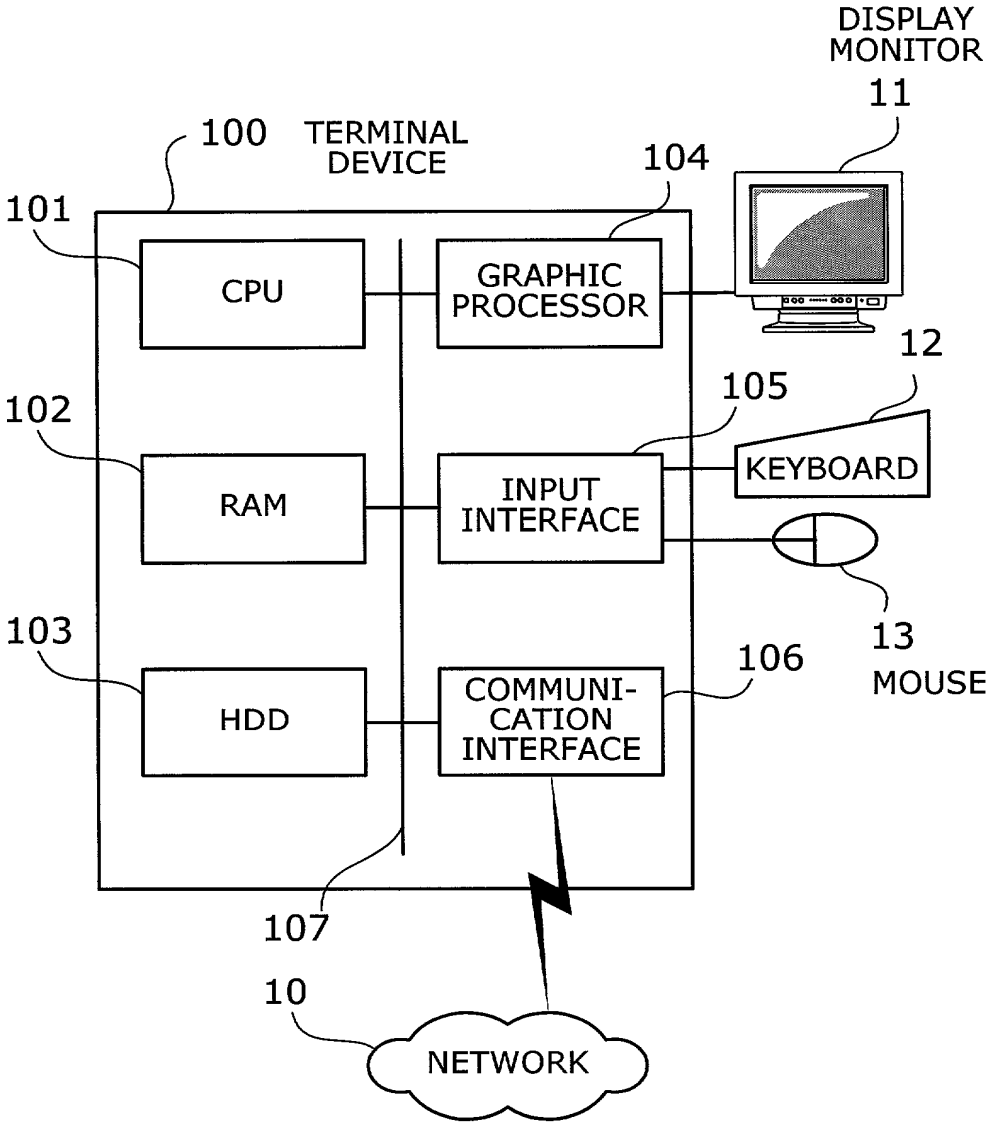

DISPLAY MONITOR
11
100
TERMINAL DEVICE
104
101
CPU
GRAPHIC PROCESSOR
12
105
102
RAM
INPUT INTERFACE
KEYBOARD
103
106
HDD
COMMUNI-CATION INTERFACE
13
MOUSE
107
10
NETWORK

FIG. 3

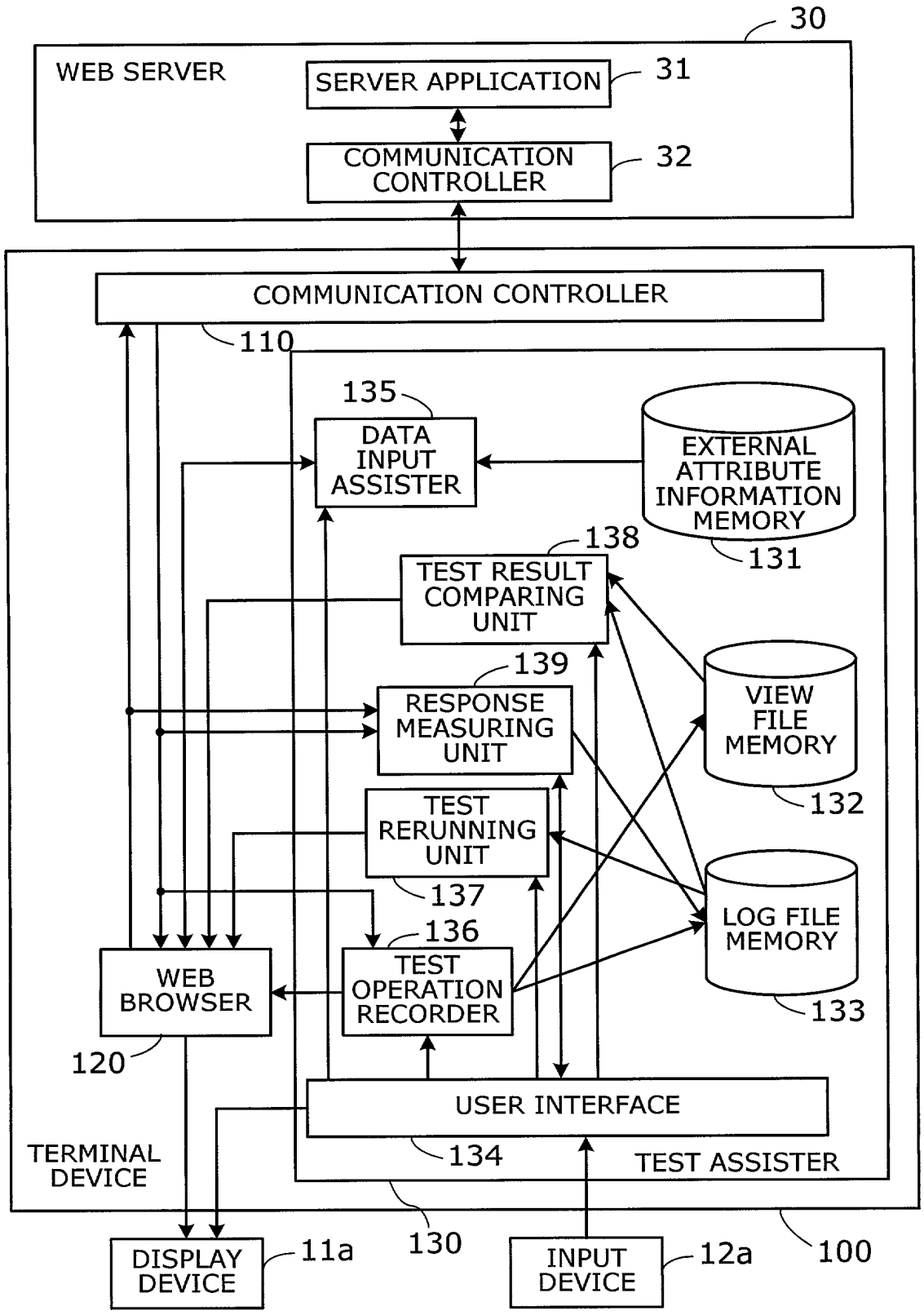

30
WEB SERVER
SERVER APPLICATION
31
COMMUNICATION CONTROLLER
32
COMMUNICATION CONTROLLER
110
135
DATA INPUT ASSISTER
EXTERNAL ATTRIBUTE INFORMATION MEMORY
131
138
TEST RESULT COMPARING UNIT
139
RESPONSE MEASURING UNIT
VIEW FILE MEMORY
132
TEST RERUNNING UNIT
137
LOG FILE MEMORY
133
136
WEB BROWSER
TEST OPERATION RECORDER
120
USER INTERFACE
134
TERMINAL DEVICE
TEST ASSISTER
130
DISPLAY DEVICE
11a
INPUT DEVICE
12a
100

FIG. 4

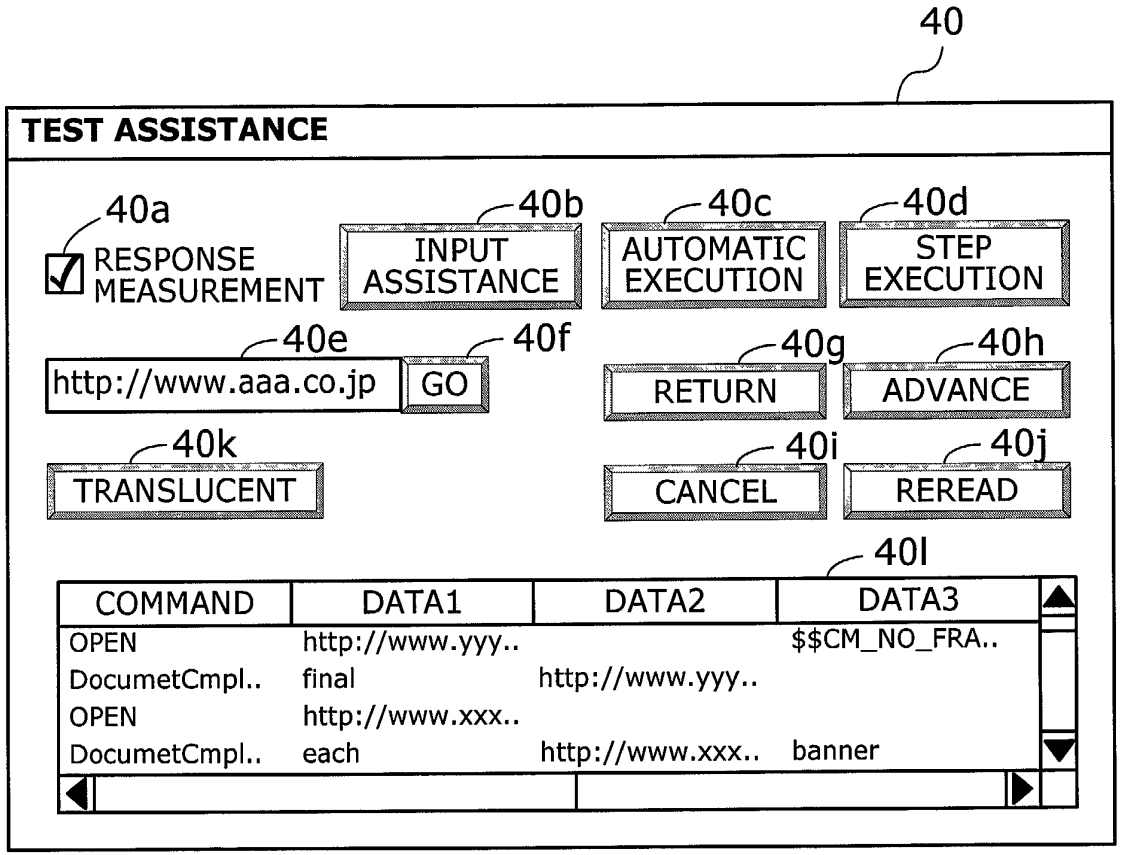

40
TEST ASSISTANCE
40a
RESPONSE MEASUREMENT
40b
INPUT ASSISTANCE
40c
AUTOMATIC EXECUTION
40d
STEP EXECUTION
40e
http://www.aaa.co.jp
40f
GO
40g
RETURN
40h
ADVANCE
40k
TRANSLUCENT
40i
CANCEL
40j
REREAD
40l
COMMAND
DATA1
DATA2
DATA3
OPEN
http://www.yyy..
$$CM_NO_FRA..
DocumetCmpl..
final
http://www.yyy..
OPEN
http://www.xxx..
DocumetCmpl..
each
http://www.xxx..
banner

FIG. 5

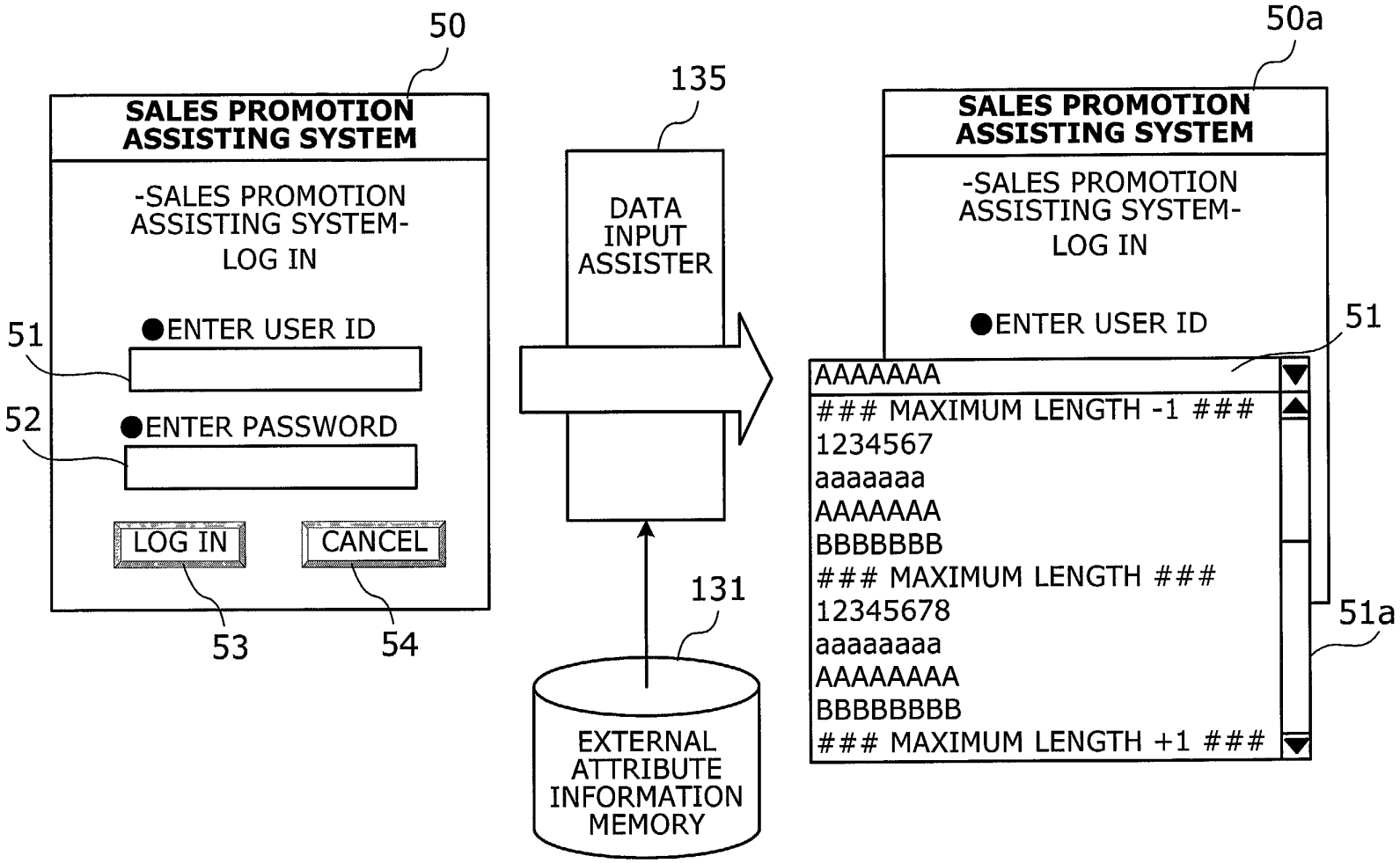

50
SALES PROMOTION ASSISTING SYSTEM
-SALES PROMOTION ASSISTING SYSTEM-
LOG IN
51
●ENTER USER ID
52
●ENTER PASSWORD
LOG IN
CANCEL
53
54
135
DATA INPUT ASSISTER
131
EXTERNAL ATTRIBUTE INFORMATION MEMORY
50a
SALES PROMOTION ASSISTING SYSTEM
-SALES PROMOTION ASSISTING SYSTEM-
LOG IN
●ENTER USER ID
51
AAAAAAA
MAXIMUM LENGTH -1
1234567
aaaaaaa
AAAAAAA
BBBBBBB
MAXIMUM LENGTH
12345678
aaaaaaaa
AAAAAAAA
BBBBBBBB
MAXIMUM LENGTH +1
51a

FIG. 6

55 VIEW FILE

```
<HTML>
<HEAD>
 OMITTED
<!-- INPUT ITEM ATTRIBUTE INFORMATION FOR TEST ASSISTING FUNCTION
NAME=tx_01,TYPE=TEXT,MAXLENGTH=8,KIND=ALPHANUMERIC,MINVALUE=0,MAXVALUE=0
NAME=tx_02,TYPE=TEXT,MAXLENGTH=8,KIND=ALPHANUMERIC ,MINVALUE=0,MAXVALUE=0
-->
</HEAD>

<BODY onLoad="document.login.tx_01.focus()">
<center>
<STRONG>
<br>
LOG IN<br>
<br>
</STRONG>
<FORM METHOD="post" ACTION="/sim_servlets/login" NAME="login" TARGET="_self">
<FONT SIZE="-1">●ENTER USER ID</FONT><BR>
<INPUT TYPE="text" NAME="tx_01" size="19"><BR>
<BR>
<FONT SIZE="-1">●ENTER PASSWORD</FONT><BR>
<INPUT TYPE="PASSWORD" NAME="tx_02" size="19"><BR>
<BR>
<INPUT NAME="bt_01" TYPE="SUBMIT" VALUE="LOG IN" onclick="if(Check() != true) {return false}">
<INPUT NAME="bt_02" TYPE="RESET" VALUE="CANCEL">
</FORM>
<BR>
</center>
</BODY>
</HTML>
```

55a

55b

55c

55d

FIG. 7

56 PROCESSING DESCRIPTION

```
<SELECT name=menu1
onchange=textName.value=this.options[this.selectedIndex].innerText'>
<OPTION>### MAXIMUM LENGTH -1 ###</OPTION>
<OPTION>1234567</OPTION>
<OPTION>aaaaaaa</OPTION>
<OPTION>AAAAAAA</OPTION>
<OPTION>BBBBBBB</OPTION>
<OPTION>### MAXIMUM LENGTH ###</OPTION>
<OPTION>12345678</OPTION>
<OPTION>aaaaaaaa</OPTION>
<OPTION>AAAAAAAA</OPTION>
<OPTION>BBBBBBBB</OPTION>
<OPTION>### MAXIMUM LENGTH +1 ###</OPTION>
<OPTION>123456789</OPTION>
<OPTION>aaaaaaaaa</OPTION>
<OPTION>AAAAAAAAA</OPTION>
<OPTION>BBBBBBBBB</OPTION>
</SELECT>"
```

FIG. 8

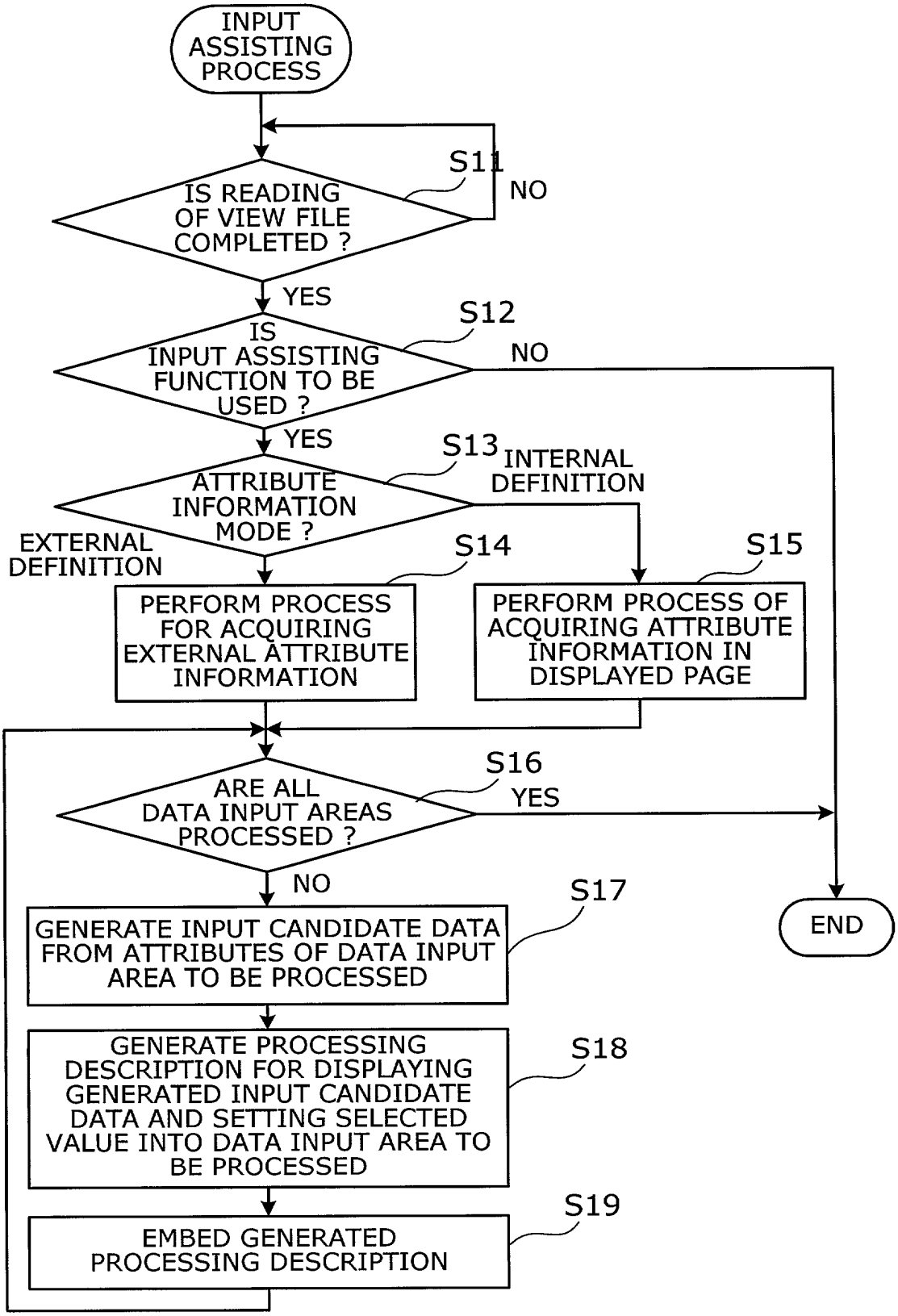

INPUT ASSISTING PROCESS
S11
IS READING OF VIEW FILE COMPLETED ?
NO
YES
S12
IS INPUT ASSISTING FUNCTION TO BE USED ?
NO
YES
S13
ATTRIBUTE INFORMATION MODE ?
INTERNAL DEFINITION
EXTERNAL DEFINITION
S14
PERFORM PROCESS FOR ACQUIRING EXTERNAL ATTRIBUTE INFORMATION
S15
PERFORM PROCESS OF ACQUIRING ATTRIBUTE INFORMATION IN DISPLAYED PAGE
S16
ARE ALL DATA INPUT AREAS PROCESSED ?
YES
NO
END
S17
GENERATE INPUT CANDIDATE DATA FROM ATTRIBUTES OF DATA INPUT AREA TO BE PROCESSED
S18
GENERATE PROCESSING DESCRIPTION FOR DISPLAYING GENERATED INPUT CANDIDATE DATA AND SETTING SELECTED VALUE INTO DATA INPUT AREA TO BE PROCESSED
S19
EMBED GENERATED PROCESSING DESCRIPTION

FIG. 9

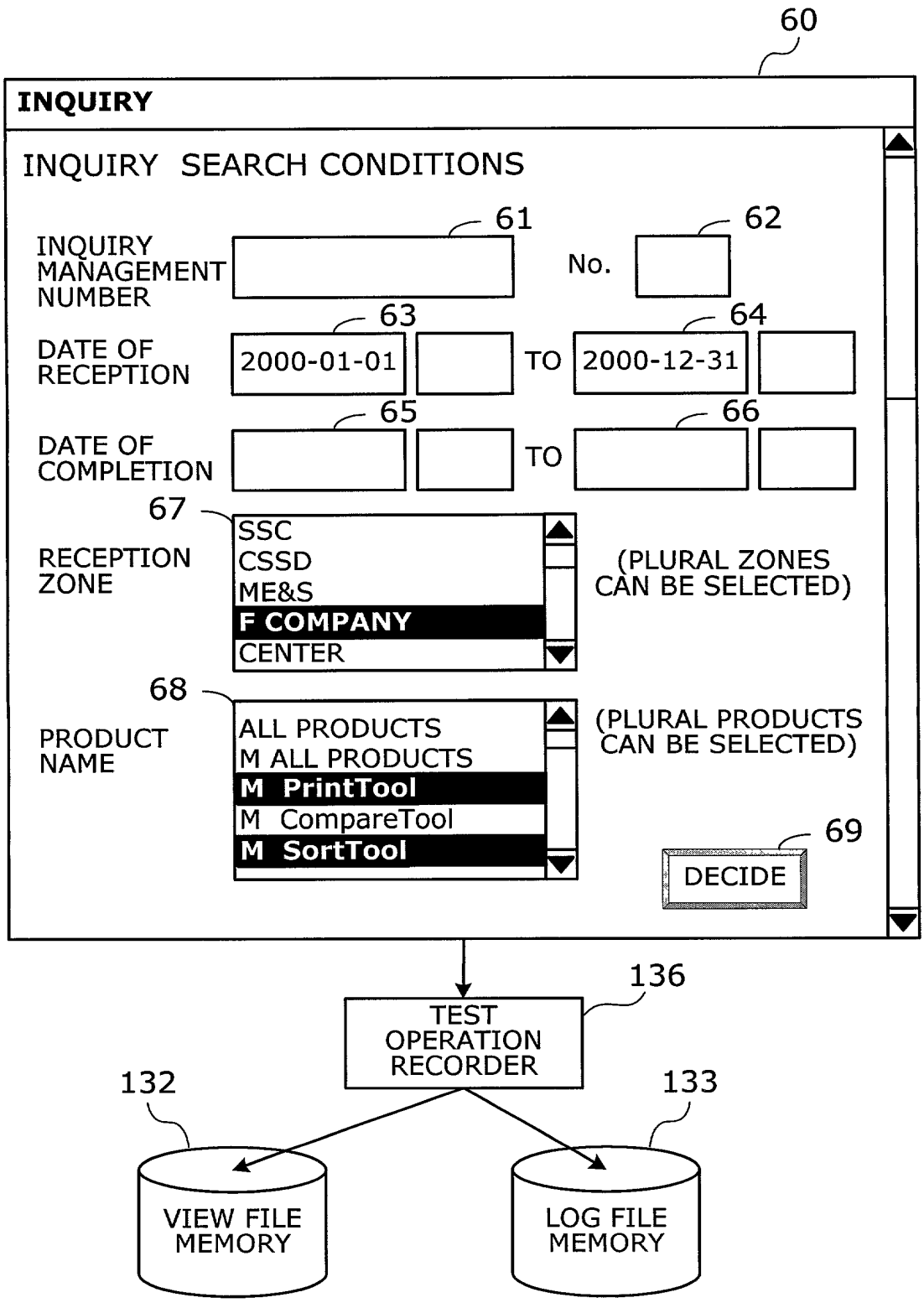

60
INQUIRY
INQUIRY SEARCH CONDITIONS
61
62
INQUIRY MANAGEMENT NUMBER
No.
63
64
DATE OF RECEPTION
2000-01-01
TO
2000-12-31
65
66
DATE OF COMPLETION
TO
67
RECEPTION ZONE
SSC
CSSD
ME&S
F COMPANY
CENTER
(PLURAL ZONES CAN BE SELECTED)
68
PRODUCT NAME
ALL PRODUCTS
M ALL PRODUCTS
M PrintTool
M CompareTool
M SortTool
(PLURAL PRODUCTS CAN BE SELECTED)
69
DECIDE
136
TEST OPERATION RECORDER
132
133
VIEW FILE MEMORY
LOG FILE MEMORY

FIG. 10

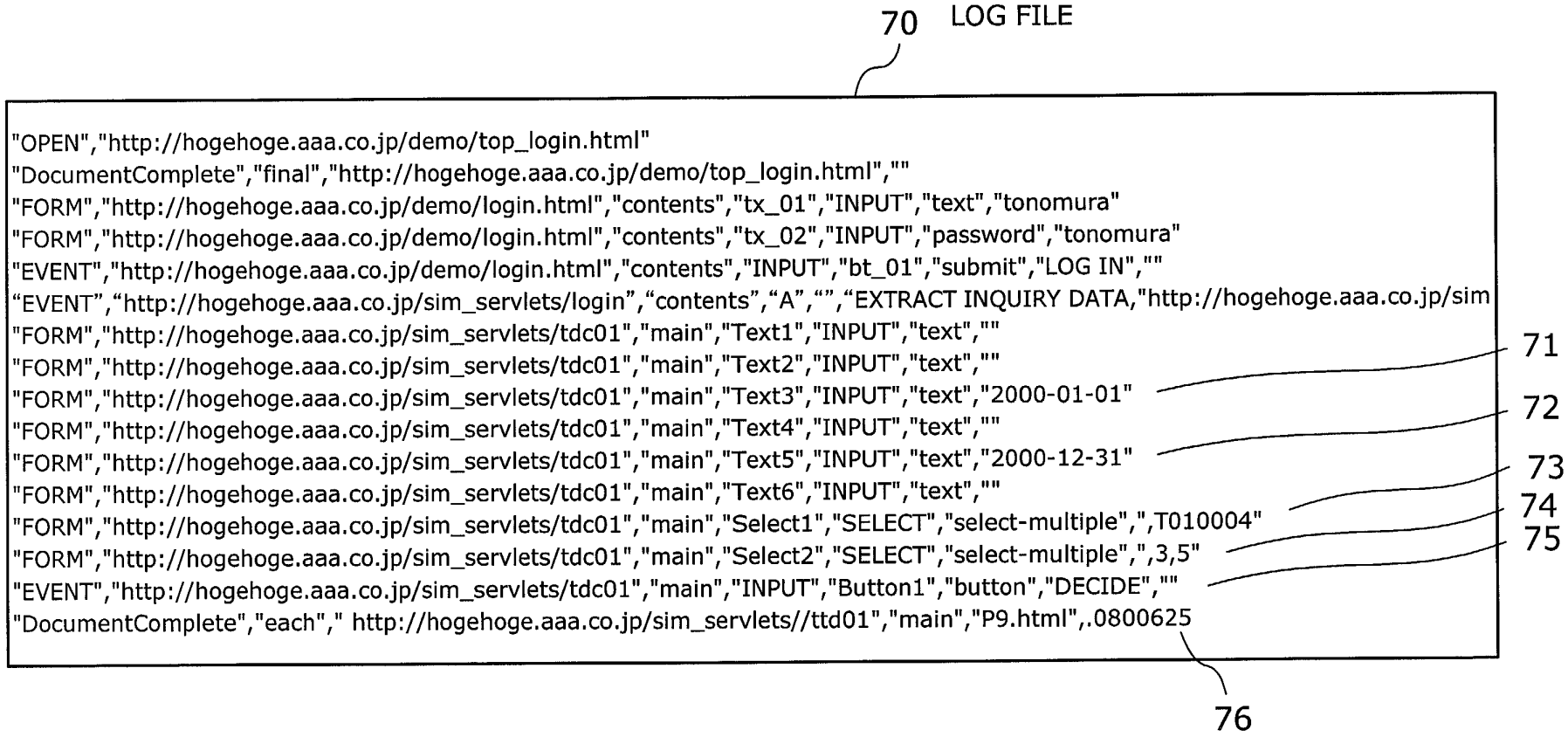

70
LOG FILE
"OPEN","http://hogehoge.aaa.co.jp/demo/top_login.html"
"DocumentComplete","final","http://hogehoge.aaa.co.jp/demo/top_login.html",""
"FORM","http://hogehoge.aaa.co.jp/demo/login.html","contents","tx_01","INPUT","text","tonomura"
"FORM","http://hogehoge.aaa.co.jp/demo/login.html","contents","tx_02","INPUT","password","tonomura"
"EVENT","http://hogehoge.aaa.co.jp/demo/login.html","contents","INPUT","bt_01","submit","LOG IN",""
“EVENT”,“http://hogehoge.aaa.co.jp/sim_servlets/login”,“contents”,“A”,“”,“EXTRACT INQUIRY DATA,"http://hogehoge.aaa.co.jp/sim
"FORM","http://hogehoge.aaa.co.jp/sim_servlets/tdc01","main","Text1","INPUT","text",""
"FORM","http://hogehoge.aaa.co.jp/sim_servlets/tdc01","main","Text2","INPUT","text",""
"FORM","http://hogehoge.aaa.co.jp/sim_servlets/tdc01","main","Text3","INPUT","text","2000-01-01"
"FORM","http://hogehoge.aaa.co.jp/sim_servlets/tdc01","main","Text4","INPUT","text",""
"FORM","http://hogehoge.aaa.co.jp/sim_servlets/tdc01","main","Text5","INPUT","text","2000-12-31"
"FORM","http://hogehoge.aaa.co.jp/sim_servlets/tdc01","main","Text6","INPUT","text",""
"FORM","http://hogehoge.aaa.co.jp/sim_servlets/tdc01","main","Select1","SELECT","select-multiple",",T010004"
"FORM","http://hogehoge.aaa.co.jp/sim_servlets/tdc01","main","Select2","SELECT","select-multiple",",3,5"
"EVENT","http://hogehoge.aaa.co.jp/sim_servlets/tdc01","main","INPUT","Button1","button","DECIDE",""
"DocumentComplete","each"," http://hogehoge.aaa.co.jp/sim_servlets//ttd01","main","P9.html",.0800625
71
72
73
74
75
76

FIG. 11

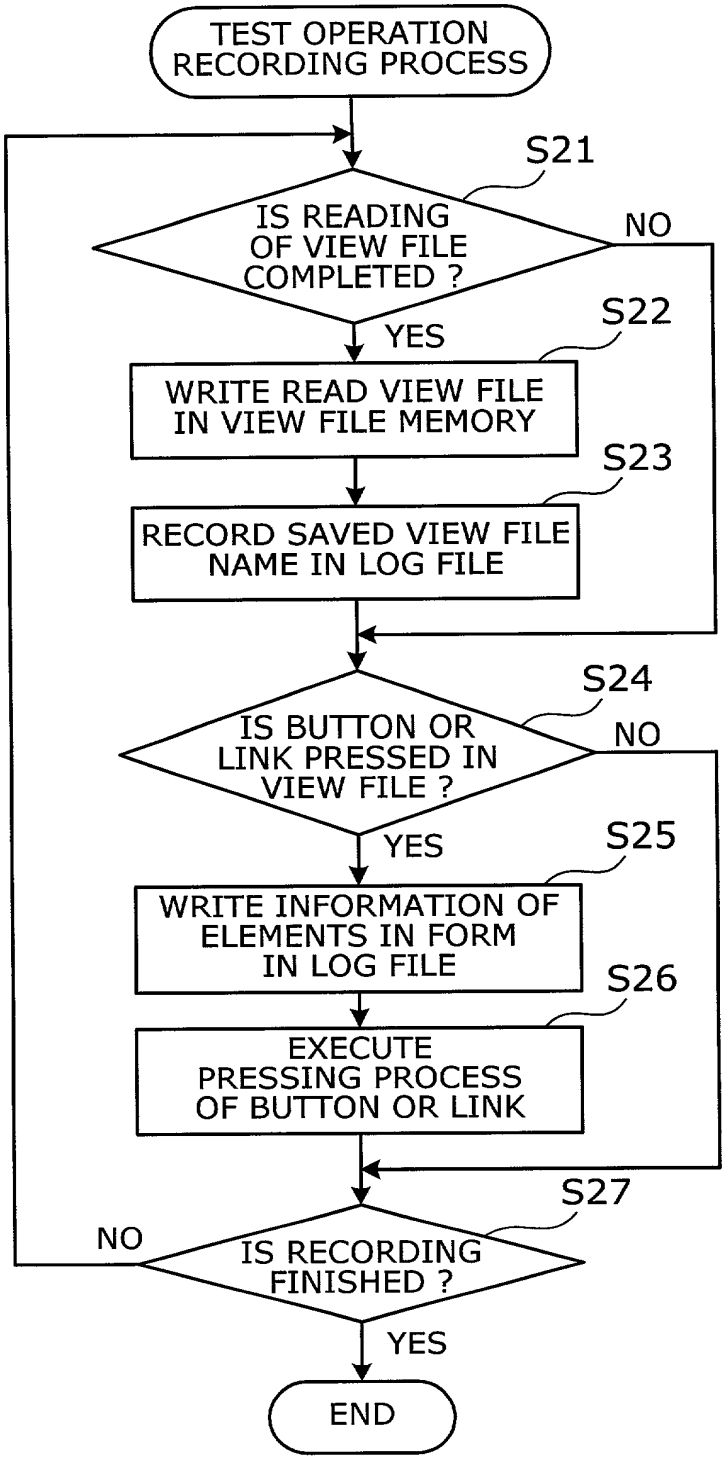

TEST OPERATION RECORDING PROCESS
S21
IS READING OF VIEW FILE COMPLETED ?
NO
YES
S22
WRITE READ VIEW FILE IN VIEW FILE MEMORY
S23
RECORD SAVED VIEW FILE NAME IN LOG FILE
S24
IS BUTTON OR LINK PRESSED IN VIEW FILE ?
NO
YES
S25
WRITE INFORMATION OF ELEMENTS IN FORM IN LOG FILE
S26
EXECUTE PRESSING PROCESS OF BUTTON OR LINK
S27
NO
IS RECORDING FINISHED ?
YES
END

FIG. 12

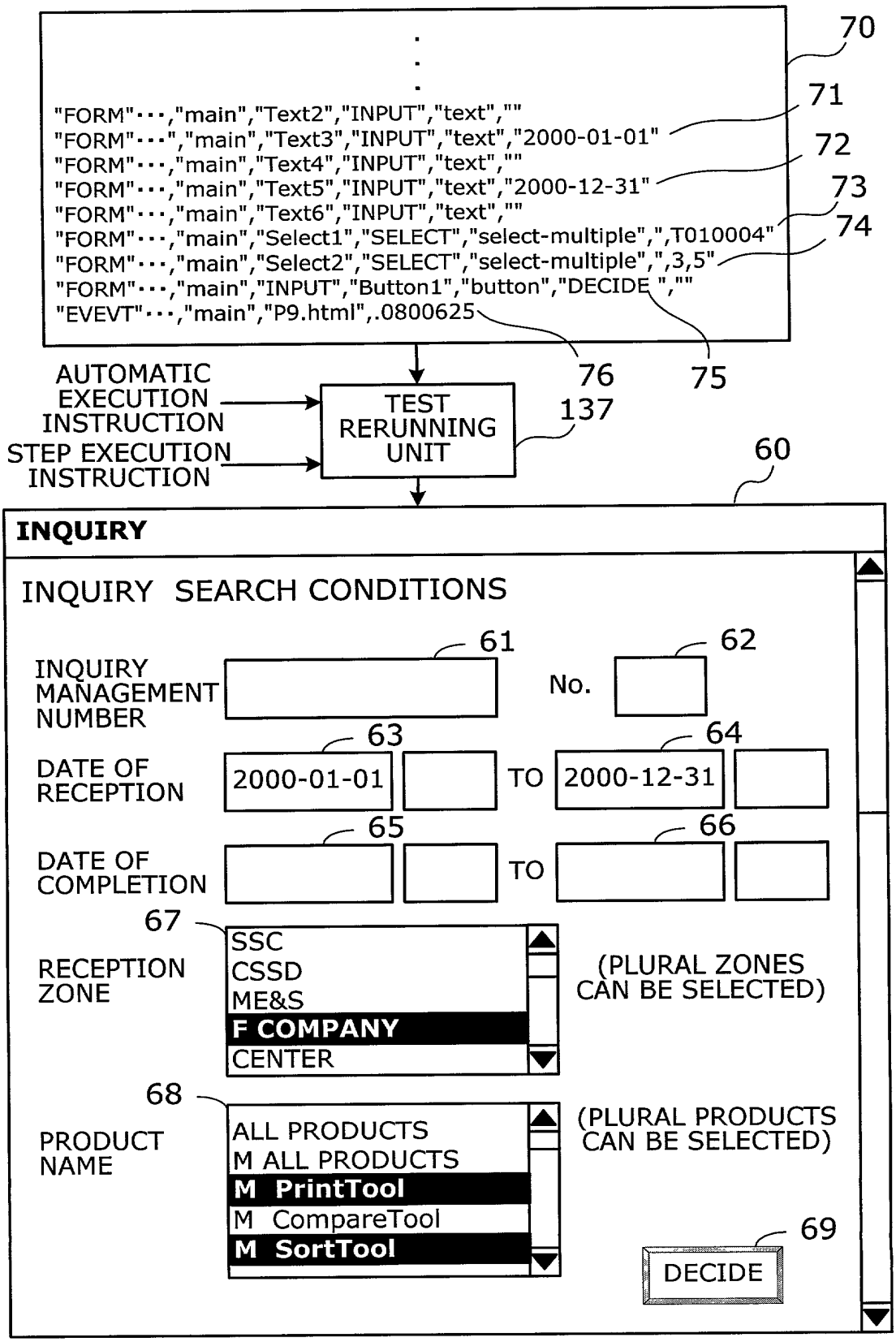

70
"FORM"･･･,"main","Text2","INPUT","text",""
"FORM"･･･,"main","Text3","INPUT","text","2000-01-01"
"FORM"･･･,"main","Text4","INPUT","text",""
"FORM"･･･,"main","Text5","INPUT","text","2000-12-31"
"FORM"･･･,"main","Text6","INPUT","text",""
"FORM"･･･,"main","Select1","SELECT","select-multiple",",T010004"
"FORM"･･･,"main","Select2","SELECT","select-multiple",",3,5"
"FORM"･･･,"main","INPUT","Button1","button","DECIDE ",""
"EVEVT"･･･,"main","P9.html",.0800625
71
72
73
74
75
76
AUTOMATIC EXECUTION INSTRUCTION
STEP EXECUTION INSTRUCTION
TEST RERUNNING UNIT
137
60
INQUIRY
INQUIRY SEARCH CONDITIONS
INQUIRY MANAGEMENT NUMBER
61
No.
62
DATE OF RECEPTION
63
2000-01-01
TO
64
2000-12-31
DATE OF COMPLETION
65
TO
66
67
RECEPTION ZONE
SSC
CSSD
ME&S
F COMPANY
CENTER
(PLURAL ZONES CAN BE SELECTED)
68
PRODUCT NAME
ALL PRODUCTS
M ALL PRODUCTS
M PrintTool
M CompareTool
M SortTool
(PLURAL PRODUCTS CAN BE SELECTED)
69
DECIDE

FIG. 13

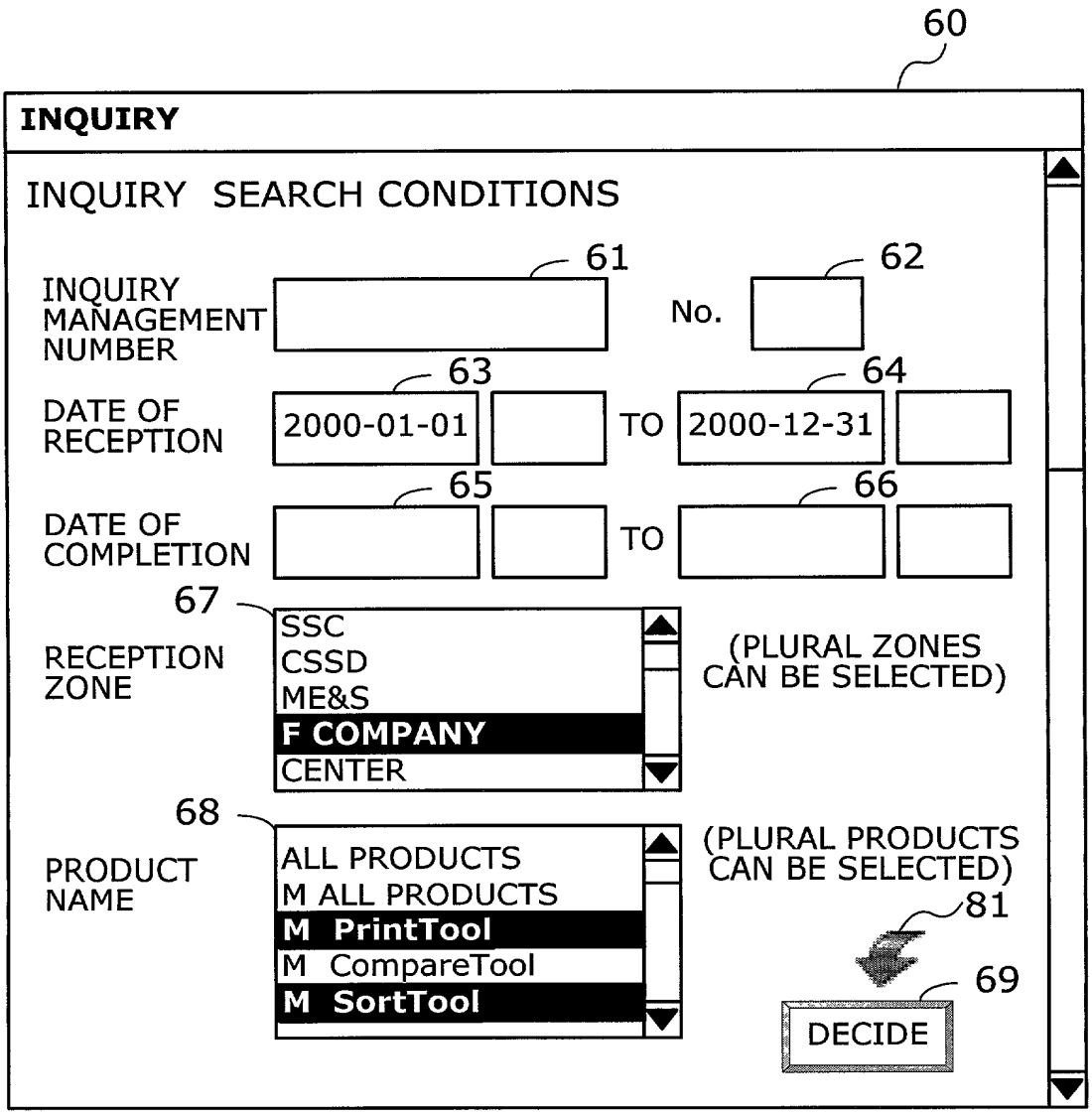

60
INQUIRY
INQUIRY SEARCH CONDITIONS
61
62
INQUIRY MANAGEMENT NUMBER
No.
63
64
DATE OF RECEPTION
2000-01-01
TO
2000-12-31
65
66
DATE OF COMPLETION
TO
67
RECEPTION ZONE
SSC
CSSD
ME&S
F COMPANY
CENTER
(PLURAL ZONES CAN BE SELECTED)
68
PRODUCT NAME
ALL PRODUCTS
M ALL PRODUCTS
M PrintTool
M CompareTool
M SortTool
(PLURAL PRODUCTS CAN BE SELECTED)
81
69
DECIDE

FIG. 14

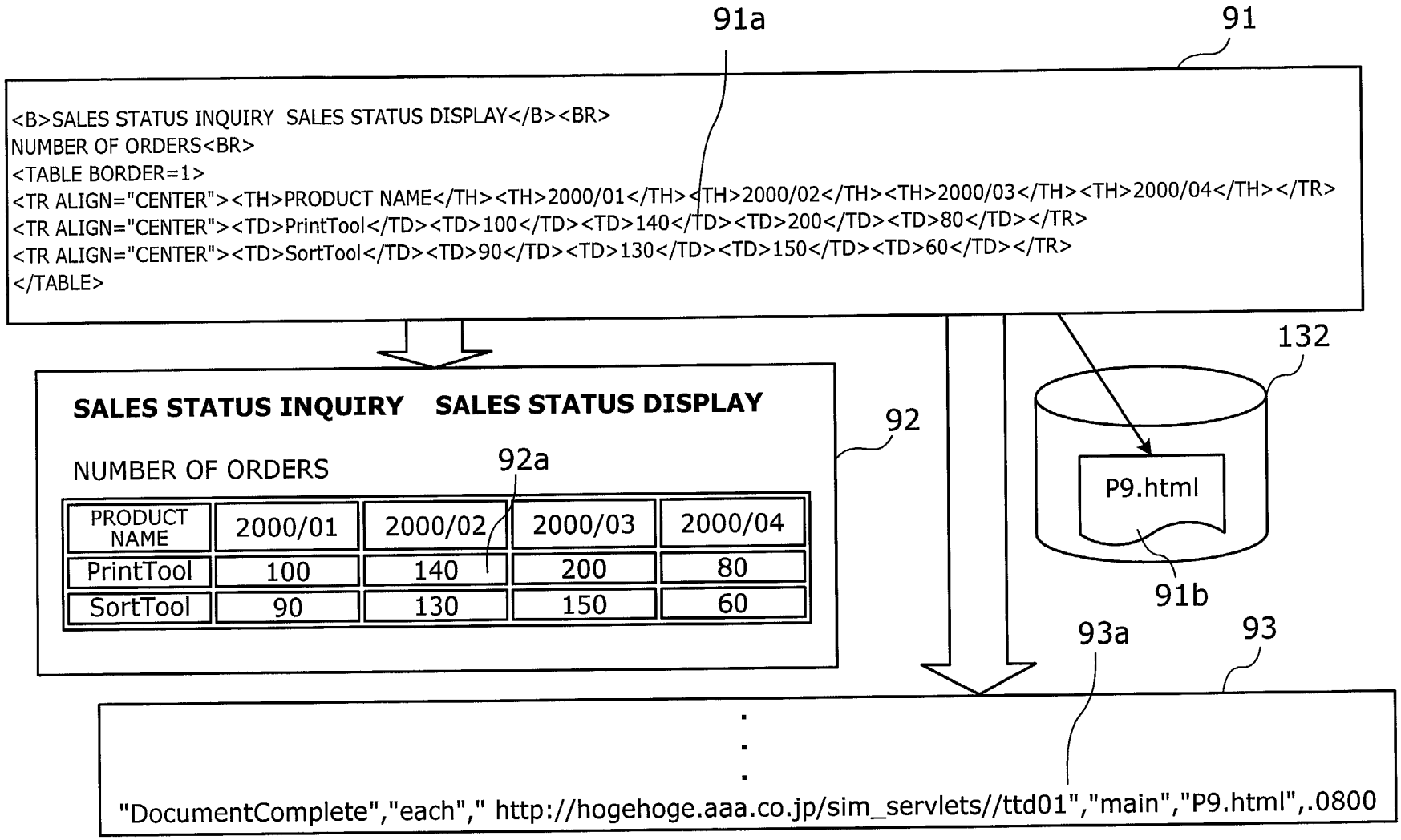

91a
91
<B>SALES STATUS INQUIRY SALES STATUS DISPLAY</B>
NUMBER OF ORDERS
<TABLE BORDER=1>
<TR ALIGN="CENTER"><TH>PRODUCT NAME</TH><TH>2000/01</TH><TH>2000/02</TH><TH>2000/03</TH><TH>2000/04</TH></TR>
<TR ALIGN="CENTER"><TD>PrintTool</TD><TD>100</TD><TD>140</TD><TD>200</TD><TD>80</TD></TR>
<TR ALIGN="CENTER"><TD>SortTool</TD><TD>90</TD><TD>130</TD><TD>150</TD><TD>60</TD></TR>
</TABLE>
132
SALES STATUS INQUIRY SALES STATUS DISPLAY
92
NUMBER OF ORDERS
92a
PRODUCT NAME
2000/01
2000/02
2000/03
2000/04
PrintTool
100
140
200
80
SortTool
90
130
150
60
P9.html
91b
93a
93
"DocumentComplete","each"," http://hogehoge.aaa.co.jp/sim_servlets//ttd01","main","P9.html",.0800

FIG. 15

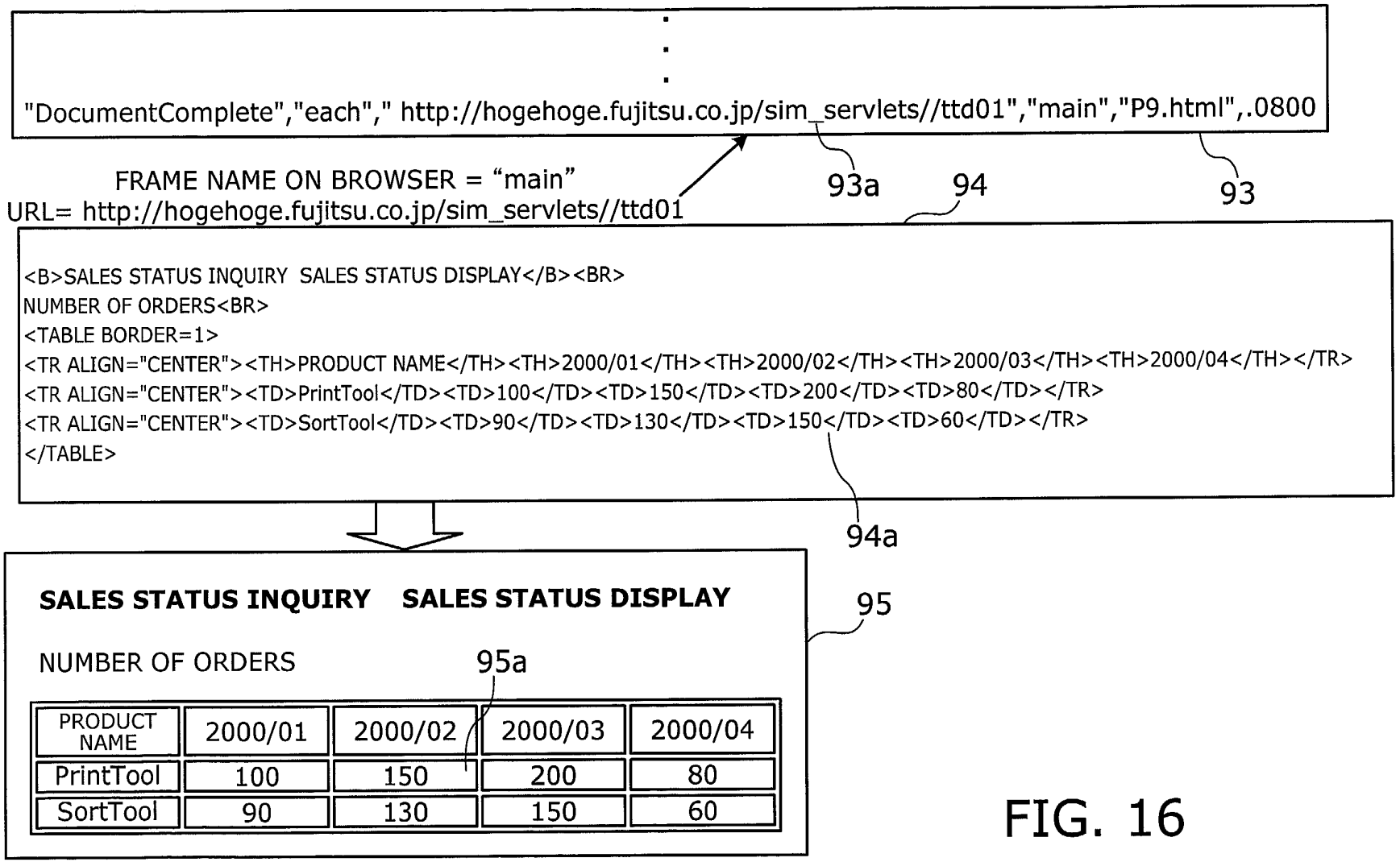

"DocumentComplete","each"," http://hogehoge.fujitsu.co.jp/sim_servlets//ttd01","main","P9.html",.0800
FRAME NAME ON BROWSER = "main"
URL= http://hogehoge.fujitsu.co.jp/sim_servlets//ttd01
93a
94
93
<B>SALES STATUS INQUIRY SALES STATUS DISPLAY</B>
NUMBER OF ORDERS
<TABLE BORDER=1>
<TR ALIGN="CENTER"><TH>PRODUCT NAME</TH><TH>2000/01</TH><TH>2000/02</TH><TH>2000/03</TH><TH>2000/04</TH></TR>
<TR ALIGN="CENTER"><TD>PrintTool</TD><TD>100</TD><TD>150</TD><TD>200</TD><TD>80</TD></TR>
<TR ALIGN="CENTER"><TD>SortTool</TD><TD>90</TD><TD>130</TD><TD>150</TD><TD>60</TD></TR>
</TABLE>
94a
SALES STATUS INQUIRY SALES STATUS DISPLAY
95
NUMBER OF ORDERS
95a
PRODUCT NAME
2000/01
2000/02
2000/03
2000/04
PrintTool
100
150
200
80
SortTool
90
130
150
60

FIG. 16

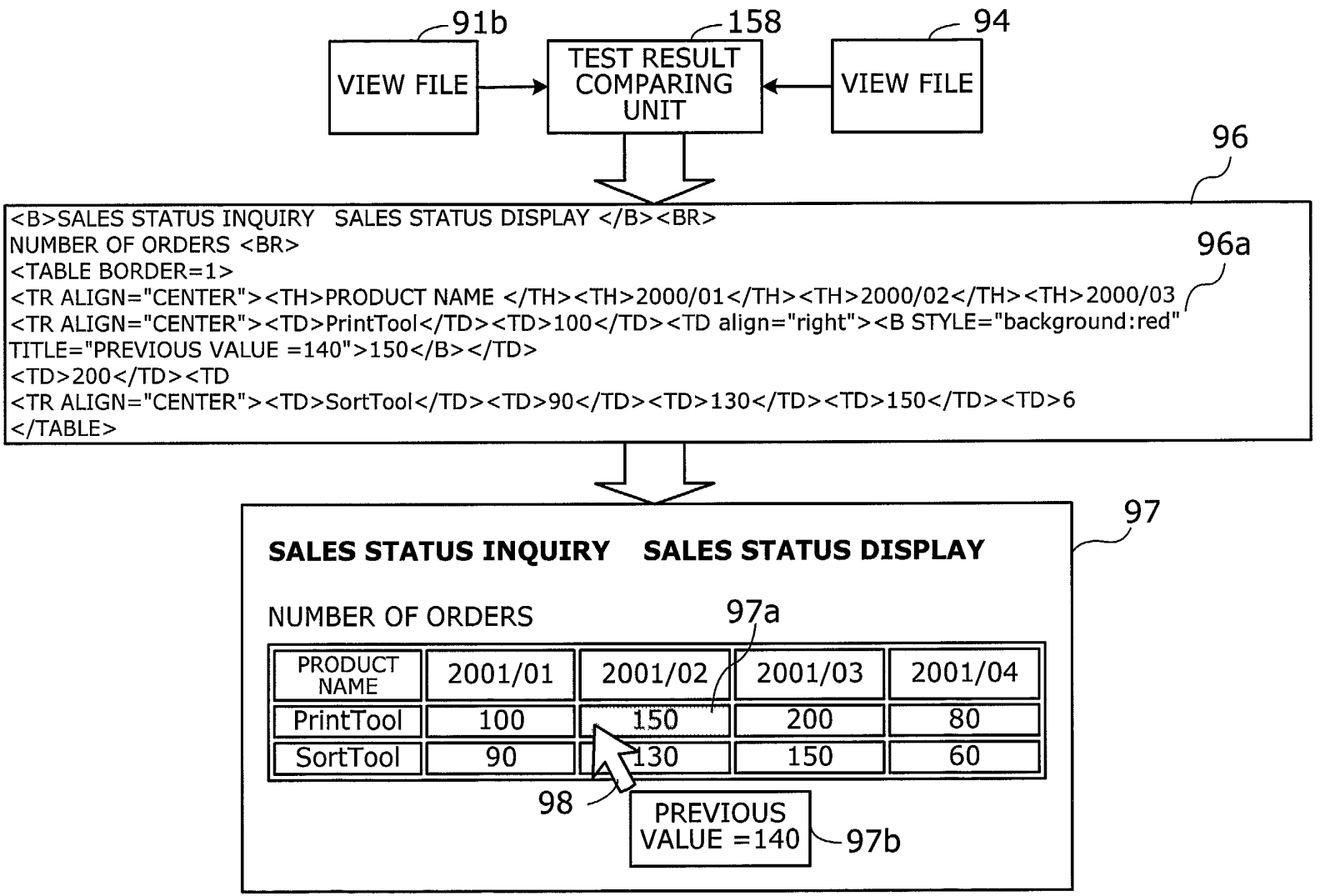

91b
158
94
VIEW FILE
TEST RESULT COMPARING UNIT
VIEW FILE
96
<B>SALES STATUS INQUIRY SALES STATUS DISPLAY </B>
NUMBER OF ORDERS
<TABLE BORDER=1>
<TR ALIGN="CENTER"><TH>PRODUCT NAME </TH><TH>2000/01</TH><TH>2000/02</TH><TH>2000/03
<TR ALIGN="CENTER"><TD>PrintTool</TD><TD>100</TD><TD align="right"><B STYLE="background:red"
TITLE="PREVIOUS VALUE =140">150</B></TD>
<TD>200</TD><TD
<TR ALIGN="CENTER"><TD>SortTool</TD><TD>90</TD><TD>130</TD><TD>150</TD><TD>6
</TABLE>
96a
97
SALES STATUS INQUIRY SALES STATUS DISPLAY
NUMBER OF ORDERS
97a
PRODUCT NAME
2001/01
2001/02
2001/03
2001/04
PrintTool
100
150
200
80
SortTool
90
130
150
60
98
PREVIOUS VALUE =140
97b

FIG. 17

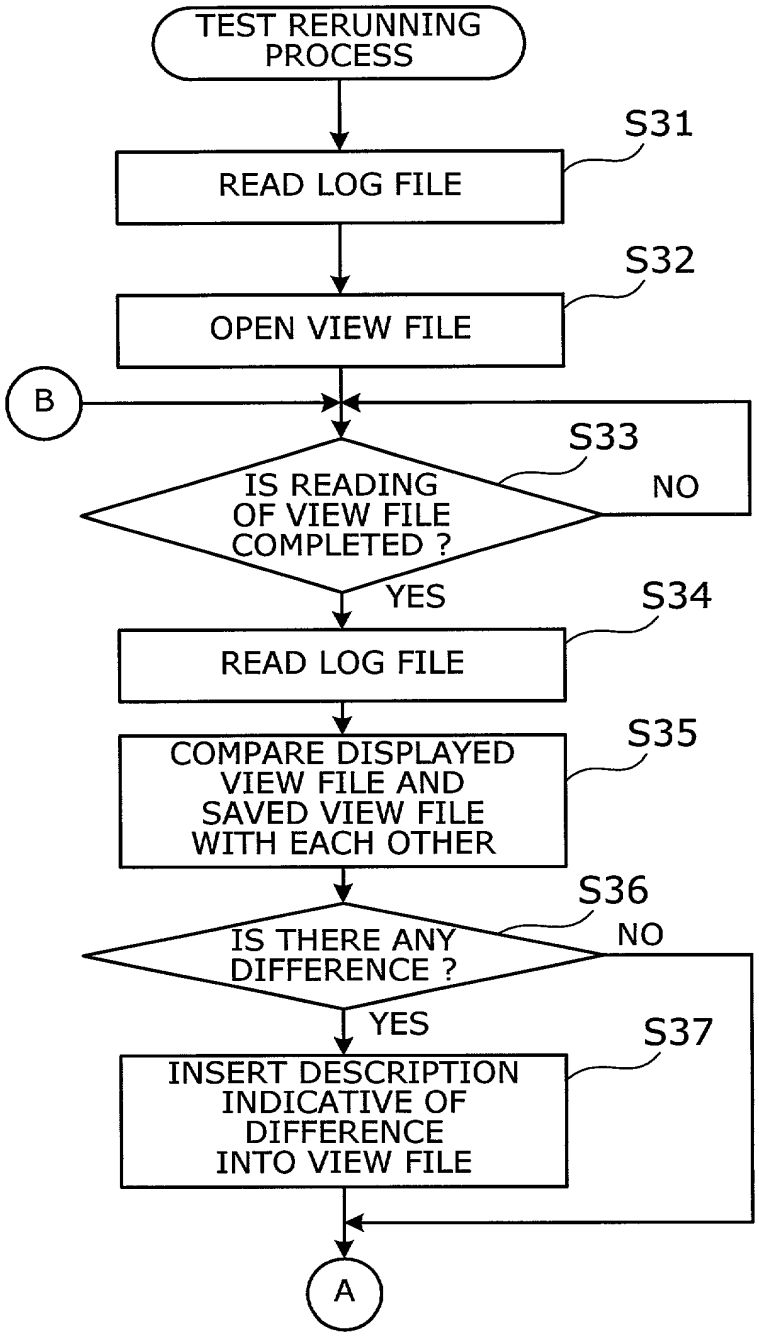

TEST RERUNNING PROCESS
S31
READ LOG FILE
S32
OPEN VIEW FILE
B
S33
IS READING OF VIEW FILE COMPLETED ?
NO
YES
S34
READ LOG FILE
S35
COMPARE DISPLAYED VIEW FILE AND SAVED VIEW FILE WITH EACH OTHER
S36
IS THERE ANY DIFFERENCE ?
NO
YES
S37
INSERT DESCRIPTION INDICATIVE OF DIFFERENCE INTO VIEW FILE
A

FIG. 18

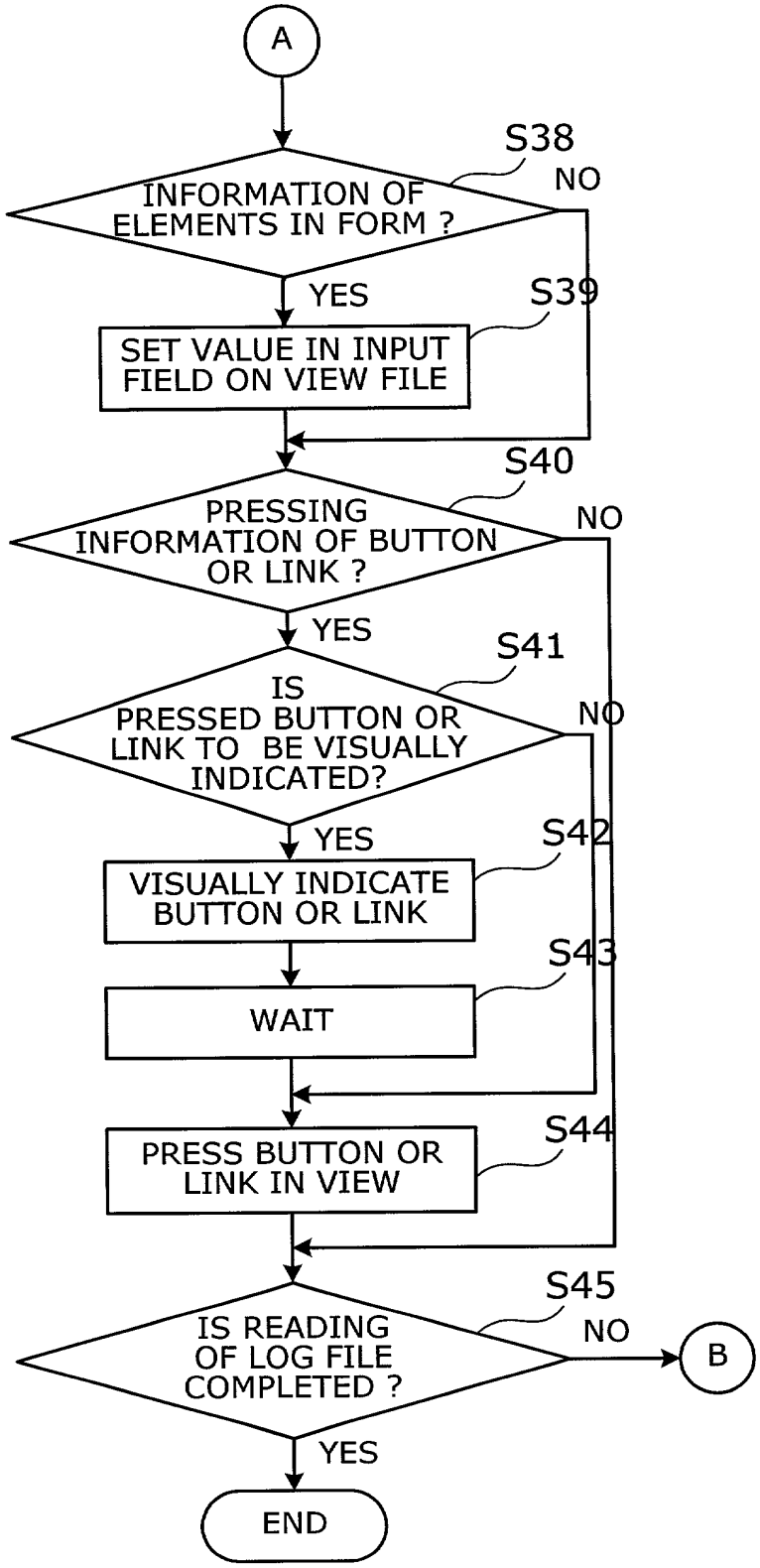

A
S38
INFORMATION OF ELEMENTS IN FORM ?
NO
YES
S39
SET VALUE IN INPUT FIELD ON VIEW FILE
S40
PRESSING INFORMATION OF BUTTON OR LINK ?
NO
YES
S41
IS PRESSED BUTTON OR LINK TO BE VISUALLY INDICATED?
NO
YES
S42
VISUALLY INDICATE BUTTON OR LINK
S43
WAIT
S44
PRESS BUTTON OR LINK IN VIEW
S45
IS READING OF LOG FILE COMPLETED ?
NO
B
YES
END

FIG. 19

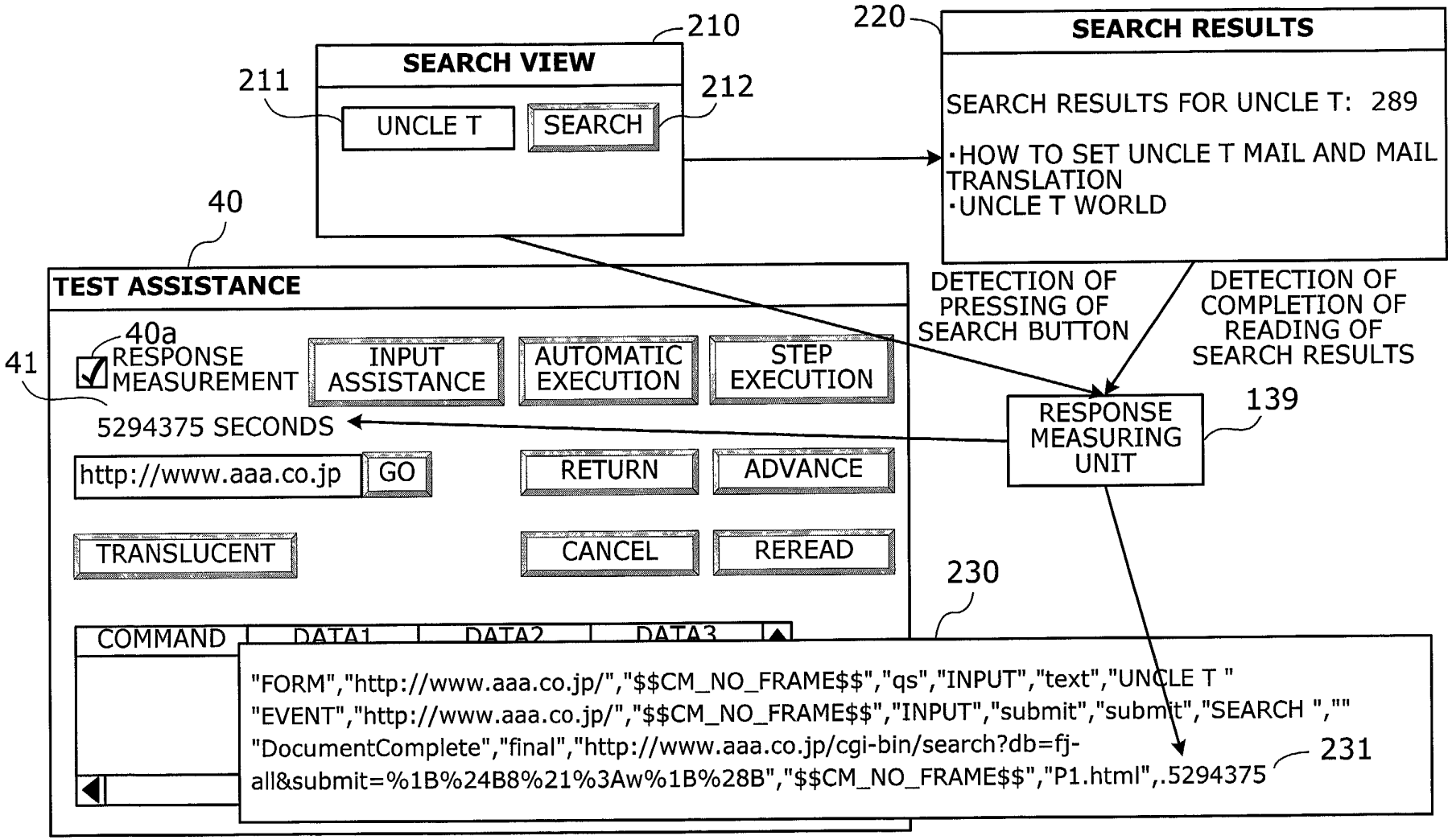

210
SEARCH VIEW
211
UNCLE T
SEARCH
212
220
SEARCH RESULTS
SEARCH RESULTS FOR UNCLE T: 289
·HOW TO SET UNCLE T MAIL AND MAIL TRANSLATION
·UNCLE T WORLD
40
TEST ASSISTANCE
DETECTION OF PRESSING OF SEARCH BUTTON
DETECTION OF COMPLETION OF READING OF SEARCH RESULTS
40a
41
RESPONSE MEASUREMENT
INPUT ASSISTANCE
AUTOMATIC EXECUTION
STEP EXECUTION
5294375 SECONDS
RESPONSE MEASURING UNIT
139
http://www.aaa.co.jp
GO
RETURN
ADVANCE
TRANSLUCENT
CANCEL
REREAD
230
COMMAND
DATA1
DATA2
DATA3
"FORM","http://www.aaa.co.jp/","$$CM_NO_FRAME$$","qs","INPUT","text","UNCLE T "
"EVENT","http://www.aaa.co.jp/","$$CM_NO_FRAME$$","INPUT","submit","submit","SEARCH ",""
"DocumentComplete","final","http://www.aaa.co.jp/cgi-bin/search?db=fj-all&submit=%1B%24B8%21%3Aw%1B%28B","$$CM_NO_FRAME$$","P1.html",.5294375
231

FIG. 20

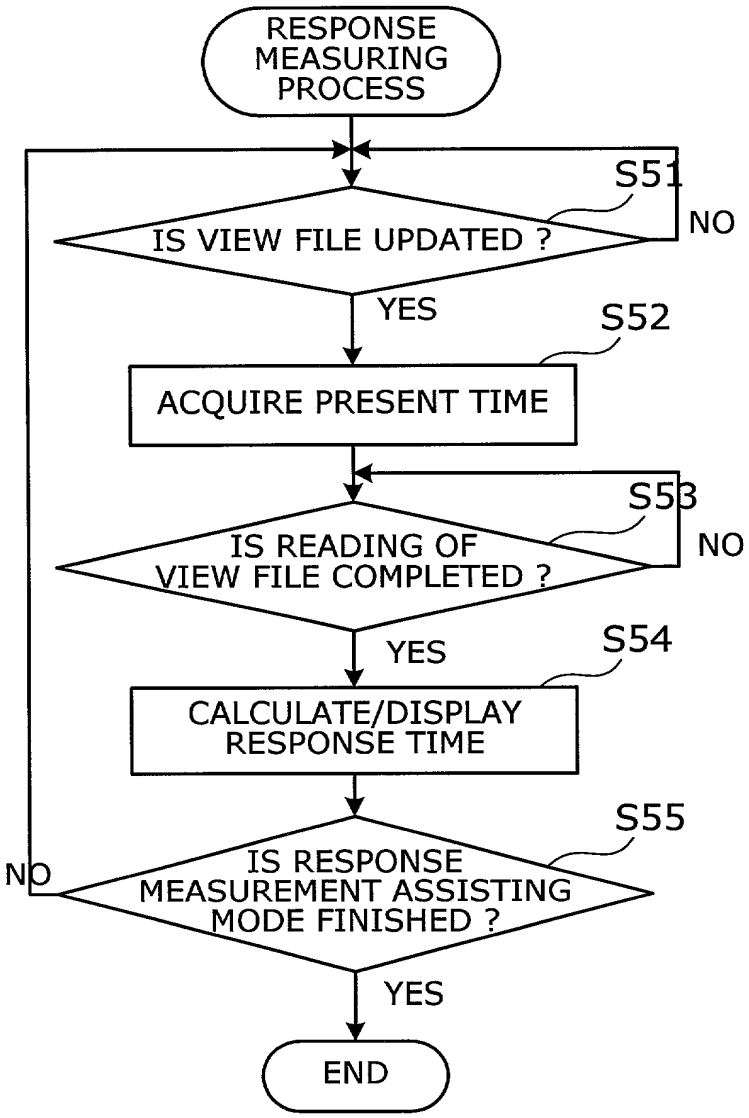
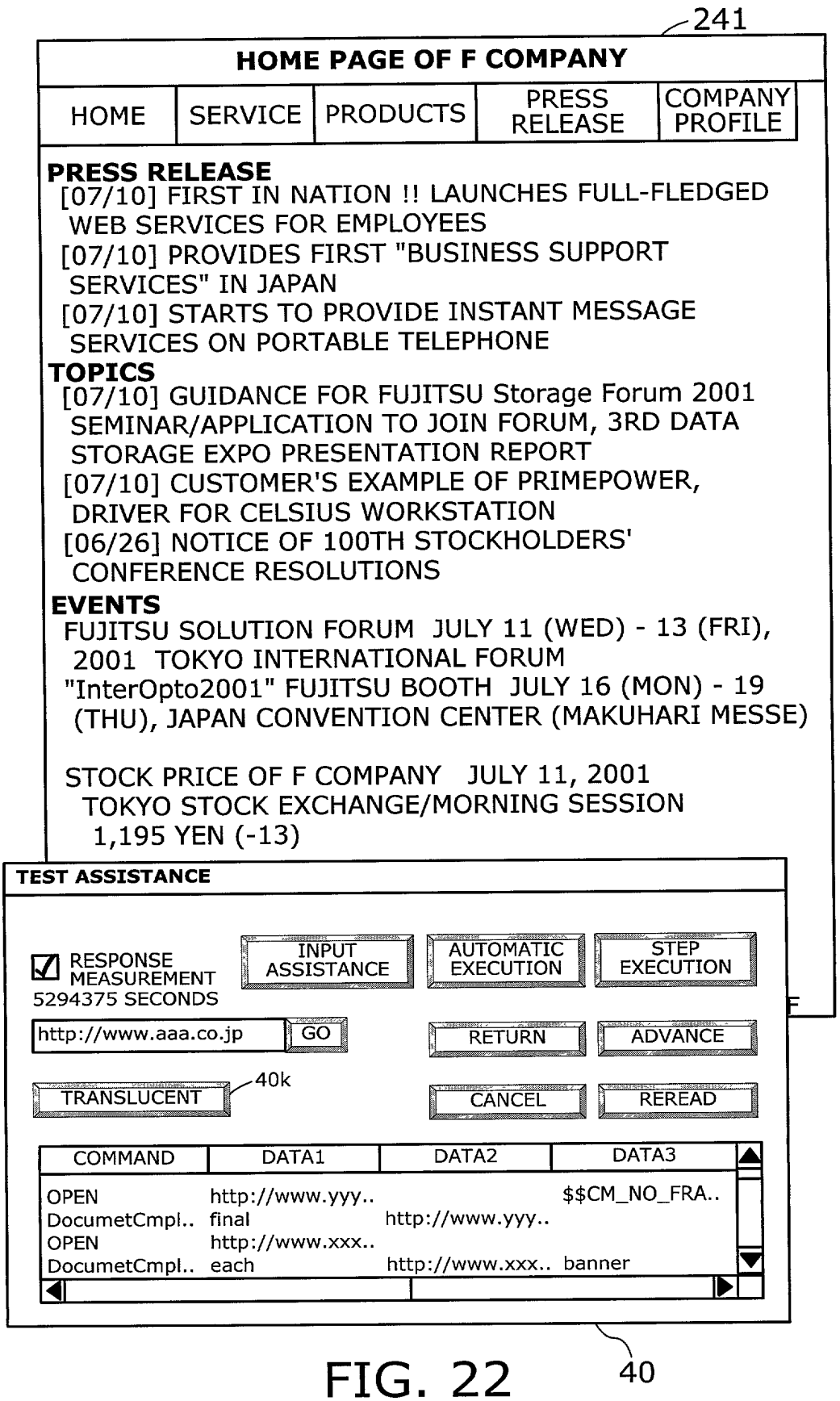

RESPONSE MEASURING PROCESS
S51
IS VIEW FILE UPDATED ?
NO
YES
S52
ACQUIRE PRESENT TIME
S53
IS READING OF VIEW FILE COMPLETED ?
NO
YES
S54
CALCULATE/DISPLAY RESPONSE TIME
S55
IS RESPONSE MEASUREMENT ASSISTING MODE FINISHED ?
NO
YES
END

FIG. 21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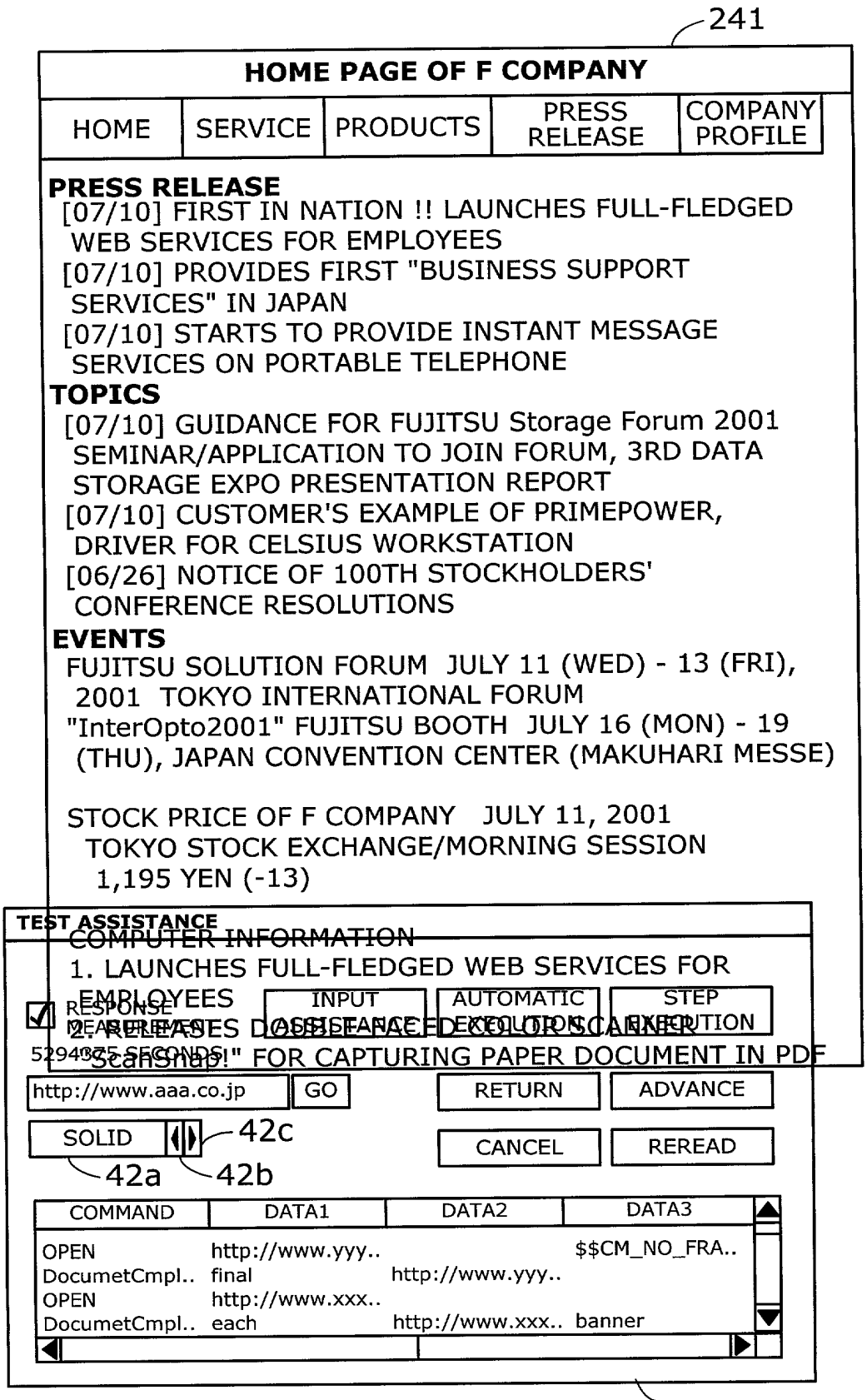
HOME PAGE OF F COMPANY
HOME
SERVICE
PRODUCTS
PRESS RELEASE
COMPANY PROFILE
PRESS RELEASE
[07/10] FIRST IN NATION !! LAUNCHES FULL-FLEDGED WEB SERVICES FOR EMPLOYEES
[07/10] PROVIDES FIRST "BUSINESS SUPPORT SERVICES" IN JAPAN
[07/10] STARTS TO PROVIDE INSTANT MESSAGE SERVICES ON PORTABLE TELEPHONE
TOPICS
[07/10] GUIDANCE FOR FUJITSU Storage Forum 2001 SEMINAR/APPLICATION TO JOIN FORUM, 3RD DATA STORAGE EXPO PRESENTATION REPORT
[07/10] CUSTOMER'S EXAMPLE OF PRIMEPOWER, DRIVER FOR CELSIUS WORKSTATION
[06/26] NOTICE OF 100TH STOCKHOLDERS' CONFERENCE RESOLUTIONS
EVENTS
FUJITSU SOLUTION FORUM JULY 11 (WED) - 13 (FRI), 2001 TOKYO INTERNATIONAL FORUM
"InterOpto2001" FUJITSU BOOTH JULY 16 (MON) - 19 (THU), JAPAN CONVENTION CENTER (MAKUHARI MESSE)
STOCK PRICE OF F COMPANY JULY 11, 2001
TOKYO STOCK EXCHANGE/MORNING SESSION
1,195 YEN (-13)
TEST ASSISTANCE
RESPONSE MEASUREMENT
5294375 SECONDS
INPUT ASSISTANCE
AUTOMATIC EXECUTION
STEP EXECUTION
http://www.aaa.co.jp
GO
RETURN
ADVANCE
TRANSLUCENT
40k
CANCEL
REREAD
COMMAND
DATA1
DATA2
DATA3
OPEN
http://www.yyy..
$$CM_NO_FRA..
DocumetCmpl..
final
http://www.yyy..
OPEN
http://www.xxx..
DocumetCmpl..
each
http://www.xxx..
banner
40

FIG. 22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HOME PAGE OF F COMPANY
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[07/10] FIRST IN NATION !! LAUNCHES FULL-FLEDGED WEB SERVICES FOR EMPLOYEES
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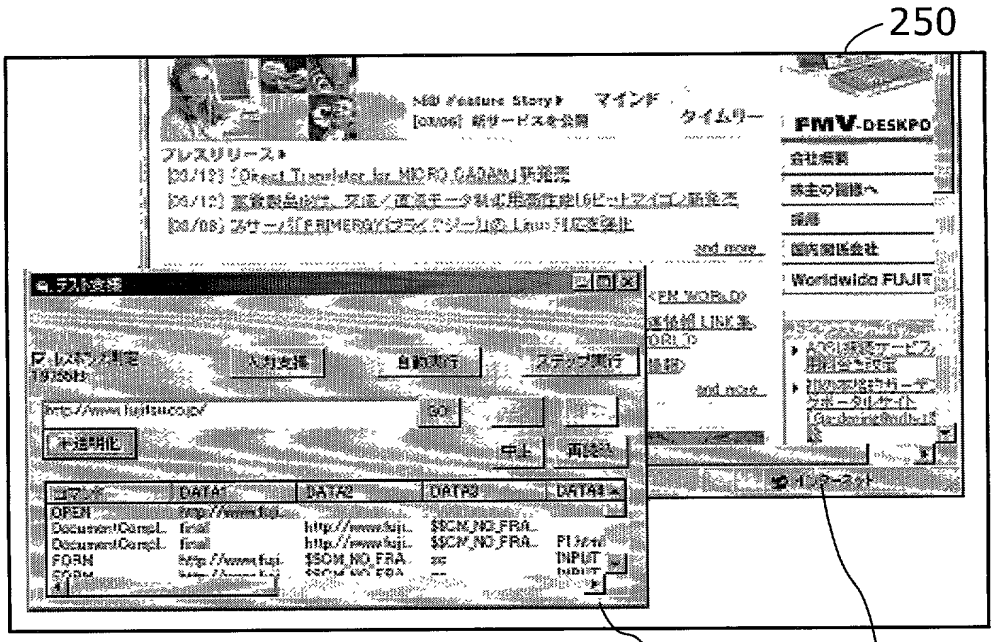
[07/10] STARTS TO PROVIDE INSTANT MESSAGE SERVICES ON PORTABLE TELEPHONE
TOPICS
[07/10] GUIDANCE FOR FUJITSU Storage Forum 2001 SEMINAR/APPLICATION TO JOIN FORUM, 3RD DATA STORAGE EXPO PRESENTATION REPORT
[07/10] CUSTOMER'S EXAMPLE OF PRIMEPOWER, DRIVER FOR CELSIUS WORKSTATION
[06/26] NOTICE OF 100TH STOCKHOLDERS' CONFERENCE RESOLUTIONS
EVENTS
FUJITSU SOLUTION FORUM JULY 11 (WED) - 13 (FRI), 2001 TOKYO INTERNATIONAL FORUM
"InterOpto2001" FUJITSU BOOTH JULY 16 (MON) - 19 (THU), JAPAN CONVENTION CENTER (MAKUHARI MESSE)
STOCK PRICE OF F COMPANY JULY 11, 2001
TOKYO STOCK EXCHANGE/MORNING SESSION
1,195 YEN (-13)
TEST ASSISTANCE
COMPUTER INFORMATION
1. LAUNCHES FULL-FLEDGED WEB SERVICES FOR EMPLOYEES
2. RELEASES DOUBLE-FACED COLOR SCANNER "ScanSnap!" FOR CAPTURING PAPER DOCUMENT IN PDF
RESPONSE MEASUREMENT
INPUT ASSISTANCE
AUTOMATIC EXECUTION
STEP EXECUTION
5294875 SECONDS
http://www.aaa.co.jp
GO
RETURN
ADVANCE
SOLID
42c
CANCEL
REREAD
42a
42b
COMMAND
DATA1
DATA2
DATA3
OPEN http://www.yyy.. $$CM_NO_FRA..
DocumetCmpl.. final http://www.yyy..
OPEN http://www.xxx..
DocumetCmpl.. each http://www.xxx.. banner
42

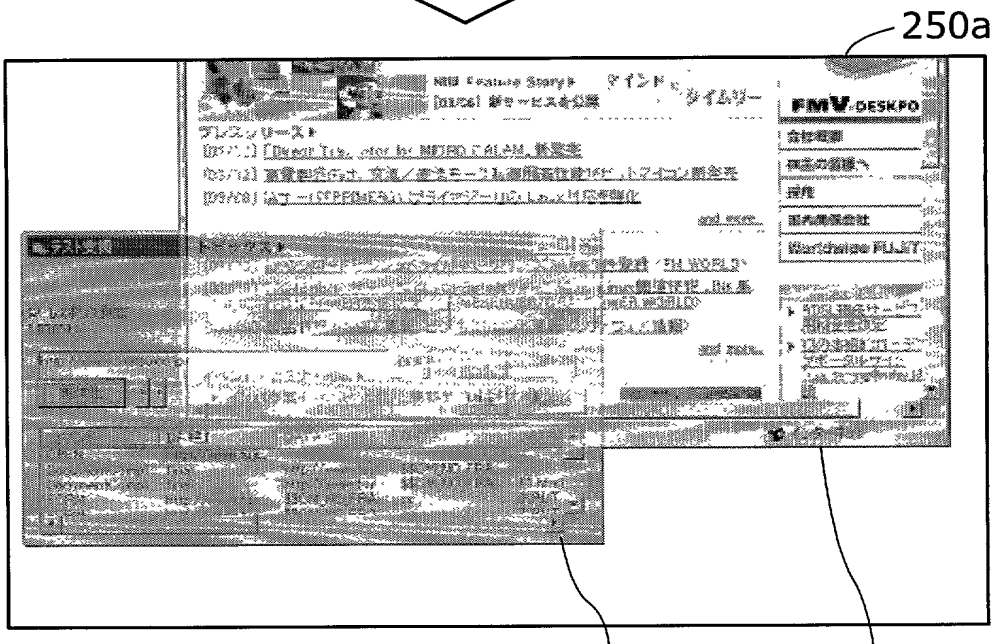
FIG. 23

EPO - DG 1 - 06.12.2006 - 06:56:26 - 7



BEFORE VIEW IS MADE TRANSLUCENT

FIG. 24(A)



AFTER VIEW IS MADE TRANSLUCENT

FIG. 24(B)

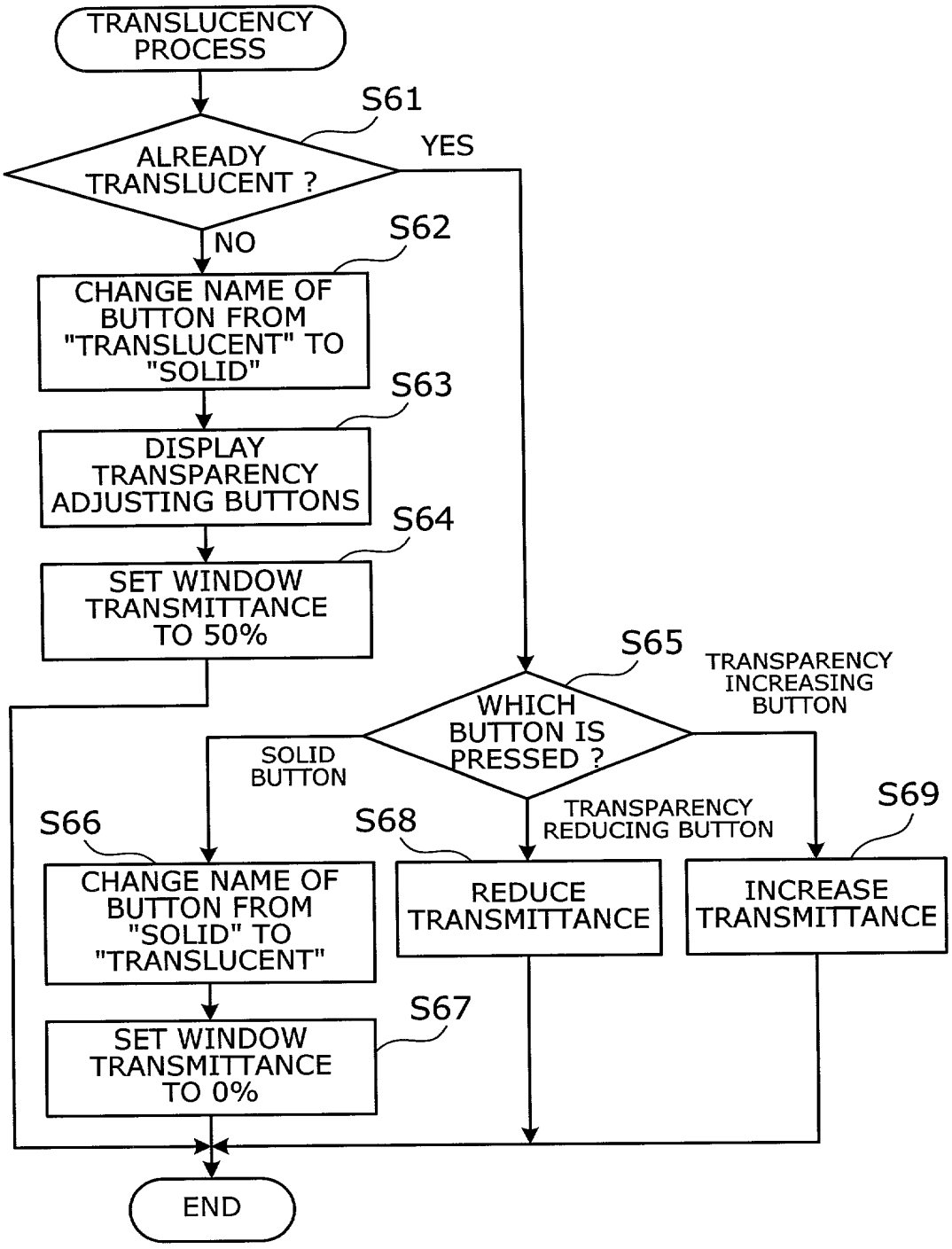

TRANSLUCENCY PROCESS
S61
ALREADY TRANSLUCENT ?
YES
NO
S62
CHANGE NAME OF BUTTON FROM "TRANSLUCENT" TO "SOLID"
S63
DISPLAY TRANSPARENCY ADJUSTING BUTTONS
S64
SET WINDOW TRANSMITTANCE TO 50%
S65
WHICH BUTTON IS PRESSED ?
SOLID BUTTON
TRANSPARENCY REDUCING BUTTON
TRANSPARENCY INCREASING BUTTON
S66
CHANGE NAME OF BUTTON FROM "SOLID" TO "TRANSLUCENT"
S67
SET WINDOW TRANSMITTANCE TO 0%
S68
REDUCE TRANSMITTANCE
S69
INCREASE TRANSMITTANCE
END

FIG. 25